**Python Operators**

1. **Write a program to perform Arithmetic operators in Python**

x=8

y=4

print(x+y) **output:** 12

print(y-x) -4

print(x\*y) 32

print(x/y) 2.0

print(y%x) 4

print(x\*\*y) 4096

print(x//y) 2

### Write a program to perform ****Comparison Operators in Python****

### **x=2**

### **y=4**

### **print(x==y) **output:** False**

### **print(x!=y) True**

### **print(x>y) False**

### **print(x<y) True**

### **print(x<=y) True**

### **print(x>=y) False**

### Write a program to perform Logical Operators in Python

### x=6

### print(x>5 and x<12) output: True

### print(not(x>5 and x<10)) False

### print(x>5 or x<10) True

### 4.Write a program to perform Assignment Operators in Python

### x=3

### print(x)

### x=5

### x+=2

### print(x)

### x=5

### x-=3

### print(x)

### x=10

### x/=5

### print(x)

### x=6

### x\*=2

### print(x)

### x=3

### x\*\*=2

### print(x)

### x=4

### x//=8

### print(x)

### x=5

### x&=3

### print(x)

### x=2

### x^2

### print(x)

### x=5

### x>>=3

### print(x)

### x=6

### x<<=10

### print(x)

**output:** 3

7

2

2.0

12

9

0

1

2

0

6144

### Write a program to perform ****Identity Operator****

### **x=["kiwi","grapes"]**

### **y=["apple","mango"]**

### **z=x **output:** True**

### **print(x is z) False**

### **print(x is y) True**

### **print("apple" not in x)**

### Write a program to perform Membership****Operator****

### x=["cherry","kiwi"]

### print("kiwi" in x) output: True

### print("kiwi" not in x) False